Publications of the Space Physiology and Countermeasures Program, Neuroscience Discipline: 1980–1990

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TABLE OF CONTENTS

Preface	V
Introduction	vii
Neuroscience Discipline	
Space Motion Sickness	3
Vestibular Performance, Posture, and Motor Coordination	29
Vestibular Physiology	61
Central and Peripheral Nervous System Physiology	83
General Performance and Methodologies	93
General Physiology	99
Index of Principal Investigators	115
Appendix: List of Principal Investigators and Addresses	119

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PREFACE

This bibliography contains publications resulting from research supported by the Neuroscience Discipline of the NASA Space Physiology and Countermeasures Program during the years 1980-1990. It is one of a series of four bibliographies being published in 1992 of the disciplines of the Space Physiology and Countermeasures Program. Others in this series include publications from the Regulatory Physiology, Cardiopulmonary, and Musculoskeletal Disciplines. Portions of this compilation have been published previously as part of a series of bibliographies of space biomedical research. Previous editions in this series cover the years 1980-1982 (NASA CR-3587), 1982-1983 (NASA CR-3739), 1983-1984 (NASA CR-3860), 1984-1986 (NASA CR-4184), and 1987-1988 (NASA CR-187840).

This bibliography is divided into six sections: Space Motion Sickness; Vestibular Performance, Posture, and Motor Coordination; Vestibular Physiology; Central and Peripheral Nervous System Physiology; General Performance and Methodologies; and General Physiology. Space Motion Sickness includes studies of the occurrence, etiology, treatments, and effects of space adaptation syndrome. Vestibular Performance, Posture, and Motor Coordination includes non-invasive studies of vestibular function and performance done in humans and animals. Vestibular Physiology includes invasive or experimental studies of vestibular function focusing on anatomy, physiology, and mechanisms of function on a structural level. Central and Peripheral Nervous System Physiology contains studies of nervous system anatomy and physiology not including vestibular function. General Performance and Methodologies contains a variety of publications regarding human performance and experiment, equipment, and technique performance. The last section, General Physiology, is included to provide the reader with additional, background material in space physiology research. NASA-funded investigators whose work resulted in these publications are identified by an asterisk. A principal investigator index of researchers conducting Neuroscience investigations, as well as a list of neuroscience investigators and their affiliations, is also included in the bibliography.

As part of our continuing interaction with the scientific and professional community, we are pleased to present this bibliography in an effort to stimulate an exchange of information and ideas among scientists working in this discipline. I would like to thank April Commodore Roy and Audrey Robin Brown for their technical assistance in the production of this bibliography.

Janis H. Stoklosa, Ph.D. Manager, Space Physiology and Countermeasures Program

INTRODUCTION

The Neuroscience Discipline is part of the Space Physiology and Countermeasures Program of the NASA Life Sciences Division. Space life sciences research was initiated in 1960 with the goal of enabling human survival in space. Now, in the late 20th century, the program is evolving to ensure human health and productivity on space missions: on the space shuttle in the 1990s, then on Space Station Freedom, and ultimately on the Moon and missions to Mars.

The goals of the Neuroscience Discipline are to understand the acute and long-term central and peripheral nervous system adaptation to space and to develop adequate physiological and performance countermeasures. The Neuroscience Discipline is comprised of several subdisciplines: Central Processing, Motion, Cognitive/Spatial Orientation, and Sensory Receptor. This multidisciplinary effort incorporates basic, applied, and operational research, both ground-based and in-flight. Research, conducted at NASA centers and in universities, includes human and animal (rats and non-human primates) subjects.

Specific objectives of the Central Processing subdiscipline are to understand the central neural mechanisms that contribute to spatial orientation; understand how signals from multiple senses related to gaze, body orientation, and motion are integrated at various sites in the central nervous system; understand the central processing that leads to space motion sickness; understand the neural basis for the adaptive responses to altered sensory environments; develop models of central processing that can be used as heuristic and productive tools for future experiments; implement pharmacological studies in order to provide a rational basis for developing drug therapies for space motion sickness; and develop, test, and validate countermeasures for neurosensory aberrations caused by exposure to microgravity. Research focuses on determining if there are changes in the processing of signals from the semicircular canals or otolith organs that occur with adaptation and if these changes take place within the vestibular nuclei, cerebellar structures, or other related brainstem and cortical structures.

Specific objectives of the Motion subdiscipline are to determine the characteristics of motor control of gaze, posture, and locomotion in altered gravity; determine how sensory inputs and coordination of muscular actions are organized before, during, and after spaceflight; determine changes in oculomotor, somatomotor, and autonomic systems in microgravity; and understand the neural circuits and physiological signals controlling motion in three-dimensional space under normal conditions and in the context of adaptation to altered gravity. Research focuses on the characteristics of gaze stabilization and eye-head coordination with varying visual, vestibular, and somatosensory inputs, and how sensory inputs and coordination of muscular activities are organized for maintenance of posture and generation of locomotion before, during, and after flight.

Specific objectives of the Cognitive/Spatial Orientation subdiscipline are to understand how adaptive changes in the vestibular, proprioceptive, somatosensory, and visual systems lead to changes in spatial orientation; determine the perceptual processes, neurophysiological mechanisms, and cortical structures underlying the perception of space and self and surround motion; and determine the changes that occur in central nervous system activity during the process of adaptation to altered gravitational conditions. Research focuses on the psychophysical correlates and neural basis for perception of motion, and what psychophysical correlates can best be used to describe spatial orientation.

The specific objective of the Sensory Receptor subdiscipline is to understand the effect of different gravitational environments on the structure and function of sensory receptors.



Research focuses on determining the structure-function relationships of the otolith organs and semicircular canals, including development, plasticity, and degeneration, and the relevant sensors for posture, body movement, and spatial orientation, including the transduction process.

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SPACE MOTION SICKNESS

Baltzley, D.R.; Gower, D.W.; Kennedy*, R.S.; Lilienthal, M.G.

Delayed effects of simulator sickness: Incidence and implications (Abstract).

Aviation, Space, and Environmental Medicine 59(5): 465, 1988. (GWU 9908)

Baltzley, D.R.; Kennedy*, R.S.; Berbaum, K.S.; Lilienthal, M.G.; Gower, D.W.

The time course of postflight simulator sickness symptoms.

Aviation, Space, and Environmental Medicine 60(11): 1043-1048, 1989. (GWU 11205)

Baltzley, D.R.; Kennedy*, R.S.; Jones, M.B.

Isoperformance: Application of a system engineering model for motion sickness and other environmental stressors (Abstract).

Aviation, Space, and Environmental Medicine 60(5): 479, 1989. (GWU 14375)

Berbaum, K.S.; Kennedy*, R.S.; Welch, R.B.; Brannan, J.R.

Space Adaptation Syndrome: Reducing Symptomatology Through Perceptual Training. Final Report.

Orlando, FL: Essex Corporation, 95 p., 1985. (GWU 7820)

Blanford, C.L.; Oman*, C.M.

Diagnostic classification of changes in the human electrogastrogram during motion sickness (Abstract).

Aviation, Space, and Environmental Medicine 61(5): 490, 1990. (GWU 13184)

Bock, O.L.; Oman*, C.M.

Dynamics of subjective discomfort in motion sickness as measured with a magnitude estimation method.

Aviation, Space, and Environmental Medicine 53(8): 773-777, 1982. (GWU 3137)

Brizzee*, K.R.

Mechanics of vomiting: A minireview.

Canadian Journal of Physiology and Pharmacology 68(1), 221-229, 1990. (GWU 14735)

Brizzee*, K.R.; Igarashi*, M.

Effect of macular ablation on frequency and latency of motion-induced emesis in the squirrel monkey.

Aviation, Space, and Environmental Medicine 57(11): 1066-1070, 1986. (GWU 7276)

Brizzee*, K.R.; Igarashi*, M.

Effect of utricular and saccular macular ablation on frequency and latency of motion sickness-induced emesis in the squirrel monkey (Abstract).

Society for Neuroscience Abstracts 13(1): 321, 1987. (GWU 12059)

Brizzee*, K.R.; Mehler, W.R.

The central nervous connections involved in the vomiting reflex.

In: Nausea and Vomiting: Mechanisms and Treatment (Davis, C.J., Lake-Bakaar, G.V., Grahame-Smith, D.G.,

Eds.). Berlin, Germany: Springer-Verlag, p. 31-55, 1986. (GWU 7399)

Brizzee*, K.R.; Ordy, J.M.; Dunlap, W.P.; Kendrick, R.; Wengenack, T.M.

Phenotype and age differences in blood gas characteristics, electrolytes, hemoglobin, plasma glucose and cortisol in

female squirrel monkeys.

Laboratory Animal Science 38(2): 200-202, 1988. (GWU 10480)

Brizzee*, K.R.; Ordy, J.M.; Mehler, W.R.

Effect of ablation of area postrema on frequency and latency of motion sickness-induced emesis in the squirrel monkey.

Physiology & Behavior 24(5): 849-853, 1980. (GWU 717)

Brizzee*, K.R.; Ordy, J.M.; Mehler, W.R.

Effects of lesions in lower brain stem and cerebellar vermis on motion sickness-induced emesis in the squirrel monkey (Abstract).

Society for Neuroscience Abstracts 6: 70, 1980. (GWU 2558)



Calkins, D.S.; Reschke*, M.F.

Empirically determined reliability of scores for several motion sickness susceptibility tests (Abstract).

In: Abstracts of Papers, Physiologic Adaptation of Man in Space, 7th International Man in Space Symposium, Houston, TX, February 10-13, 1986, 1 p. (GWU 7767)

Calkins, D.S.; Reschke*, M.F.; Kennedy*, R.S.; Dunlop, W.P.

Reliability of provocative tests of motion sickness susceptibility.

Aviation, Space, and Environmental Medicine 58(9, Suppl.): A50-A54, 1987. (GWU 8680)

Cheung, B.S.K.; Money*, K.E.; Jacobs, I.

Motion sickness susceptibility and aerobic fitness: A longitudinal study.

Aviation, Space, and Environmental Medicine 61(3): 201-204, 1990. (GWU 9571)

Cintron*, N.M.

Assessment of drug pharmacodynamic changes induced by weightlessness (Abstract).

In: Abstracts of Papers, Physiologic Adaptation of Man in Space, 7th International Man in Space Symposium, Houston, TX, February 10-13, 1986, 2 p. (GWU 7780)

Cintron*, N.M.

Salivary cortisol levels during the acute phases of space flight.

In: Results of the Life Sciences DSOs Conducted Aboard the Space Shuttle 1981-1986 (Bungo, M.W., Bagian, T.M., Bowman, M.A., Levitan, B.M., Eds.). Houston, TX: NASA, Johnson Space Center, p. 31-34, 1987. (GWU 11226)

Cintrón*, N.M.; Chen, Y.-M.

A sensitive radioreceptor assay for determining scopolamine concentrations in plasma and urine. Journal of Pharmaceutical Sciences 76(4): 328-332, 1987. (GWU 11182)

Cintron*, N.M.; Putcha, L.; Chen, Y.-M.; Vanderploeg*, J.M.

Inflight salivary pharmacokinetics of scopolamine and dextroamphetamine.

In: Results of the Life Sciences DSOs Conducted Aboard the Space Shuttle 1981-1986 (Bungo, M.W., Bagian, T.M., Bowman, M.A., Levitan, B.M., Eds.). Houston, TX: NASA, Johnson Space Center, p. 25-29, 1987. (GWU 11229)

Cintron*, N.M.; Putcha, L.; Hunter, R.P.; Parise, C.; Tietze, K.

Effectiveness of intranasal scopolamine in normal subjects.

In: Johnson Space Center Research and Technology, Annual Report 1990. Houston, TX: NASA, Johnson Space Center, p. 115-116, 1990. (NASA-TM-102172) (GWU 13550)

Cintron*, N.M.; Putcha, L.; Vanderploeg*, J.M.

Inflight pharmacokinetics of acetaminophen in saliva.

In: Results of the Life Sciences DSOs Conducted Aboard the Space Shuttle 1981-1986 (Bungo, M.W., Bagian, T.M., Bowman, M.A., Levitan, B.M., Eds.). Houston, TX: NASA, Johnson Space Center, p. 19-23, 1987. (GWU 11225)

Cintron*, N.M.; Putcha, L.; Vanderploeg*, J.M.; Chen, Y.M.

Inflight salivary pharmacokinetics of therapeutic agents (Abstract).

In: Space Life Sciences Symposium: Three Decades of Life Science Research in Space, Washington, DC, June 21-26, 1987, p. 65-67. (GWU 9943)

Cintron-Trevino*, N.M.; Chen, Y.

Dynamics of scopolamine dosing in human subjects (Abstract).

Aviation, Space, and Environmental Medicine 55(5): 453, 1984. (GWU 5651)

Cohen, G.M.; Reschke*, M.; Homick*, J.

A study in motion sickness: Saccular hair cells in the adult bullfrog.

In: Making Space Work for Mankind: Proceedings of the Nineteenth Space Congress, Cocoa Beach, FL, April 28-30, 1982. Cape Canaveral, FL: Canaveral Council of Technical Societies, p. 8/57-8/61, 1982. (GWU 4713)

Corcoran, M.L.; Fox*, R.A.; Daunton*, N.G.

The susceptibility of rhesus monkeys to motion sickness.

Aviation, Space, and Environmental Medicine 61(9): 807-809, 1990. (GWU 11715)

Correia*, M.J.; Perachio*, A.A.; Eden, A.R.

Space motion sickness: Neural mechanisms of sensory conflict (Abstract).

In: Proceedings of the 34th Annual Conference on Engineering in Medicine and Biology, Houston, TX, September 21-23, 1981. Bethesda, MD: The Alliance for Engineering in Medicine and Biology, p. 237, 1981. (GWU 2451)

Cowings*, P.S.

Autogenic-feedback training: A treatment for motion and space sickness.

In: Motion and Space Sickness (Crampton, G.H., Ed.). Boca Raton, FL: CRC Press, p. 353-372, 1990. (GWU 13534)

Cowings*, P.S.; Malmstrom, F.V.

What you thought you knew about motion sickness isn't necessarily so.

Flying Safety February: 12-17, 1984. (GWU 7819)

Cowings*, P.S.; Naifeh, K.; Thrasher, C.

A Computer Program for Processing Impedance Cardiographic Data: Improving Accuracy Through User-Interactive Software. Moffett Field, CA: NASA, Ames Research Center, 57 p., 1988. (NASA-TM-101020) (GWU 10680)

Cowings*, P.S.; Naifeh, K.; Toscano, W.B.

The stability of individual patterns of autonomic responses to motion sickness stimulation (Abstract).

Aviation, Space, and Environmental Medicine 61(5): 503, 1990. (GWU 13196)

Cowings*, P.S.; Naifeh, K.H.; Toscano, W.B.

The stability of individual patterns of autonomic responses to motion sickness stimulation.

Aviation, Space, and Environmental Medicine 61(5): 399-405, 1990. (GWU 13148)

Cowings*, P.S.; Suter, S.; Toscano, W.B.; Kamiya, J.; Naifeh, K.

General autonomic components of motion sickness.

Psychophysiology 23(5): 542-551, 1986. (GWU 7966)

Cowings*, P.S.; Toscano, W.B.

Autogenic-feedback training for vestibular symptomatology (Abstract).

In: Space-Environment Workshop for Life Scientists. Washington, DC: NASA Headquarters, p. 2-3, 1980. (GWU 4945)

Cowings*, P.S.; Toscano, W.B.

The relationship of motion sickness susceptibility to learned autonomic control for symptom suppression.

Aviation, Space, and Environmental Medicine 53(6): 570-575, 1982. (GWU 2914)

Cowings*, P.S.; Toscano, W.B.; Kamiya, J.; Miller, N.E.; Sharp, J.C.

Autogenic-feedback training as a preventive method for space adaptation syndrome on Space-Lab 3 (Abstract).

Aviation, Space, and Environmental Medicine 59(5): 481, 1988. (GWU 10239)

Cowings*, P.S.; Toscano, W.B.; Kamiya, J.; Miller, N.E.; Sharp, J.C.

Final Report. Spacelab 3 Flight Experiment #3AFT23: Autogenic-Feedback Training as a Preventive Method for Space Adaptation Syndrome. Moffett Field, CA: NASA, Ames Research Center, 116 p., 1988.

(NASA-TM-89412) (GWU 10747)

Cowings*, P.S.; Toscano, W.B.; Kamiya, J.; Miller, N.E.; Sharp, J.C.

Preliminary results of Spacelab 3 flight experiment #3AFT23. Autogenic-feedback training: A preventive method for space adaptation syndrome (Abstract).

Psychophysiology 24(5): 584, 1987. (GWU 8111)

Crampton*, G.H. (Ed.)

Motion and Space Sickness. Boca Raton, FL: CRC Press, 1990.

Crampton*, G.H.

Neurophysiology of motion sickness.

In: Motion and Space Sickness (Crampton, G.H., Ed.). Boca Raton, FL: CRC Press, p. 29-42, 1990. (GWU 13533)

Crampton*, G.H.; Daunton*, N.G.

Evidence for a motion sickness agent in cerebrospinal fluid.

Brain, Behavior and Evolution 23: 36-41, 1983. (GWU 5309)

Crampton*, G.H.; Daunton*, N.G.

Neural mechanisms of motion sickness.

In: Space Physiology. Toulouse, France: Centre National d'Etudes Spatiales, p. 129-136, 1983. (GWU 5540)

Crampton*, G.H.; Daunton*, N.G.

Systemic naloxone increases the incidence of motion sickness in the cat.

Pharmacology Biochemistry & Behavior 19: 827-829, 1983. (GWU 5427)

Crampton*, G.H.; Lucot, J.B.

A stimulator for laboratory studies of motion sickness in cats.

Aviation, Space, and Environmental Medicine 56(5): 462-465, 1985. (GWU 8048)

Crampton*, G.H.; Lucot, J.B.

Xylazine emesis, yohimbine, and motion sickness susceptibility in the cat (Abstract).

In: Abstracts of Papers, Physiologic Adaptation of Man in Space, 7th International Man in Space Symposium, Houston, TX, February 10-13, 1986, 1 p. (GWU 7785)

Daunton*, N.G.

Animal models in motion sickness research.

In: Motion and Space Sickness (Crampton, G.H., Ed.). Boca Raton, FL: CRC Press, p. 87-104, 1990. (GWU 13221)

Daunton*, N.G.

Sensory-motor rearrangement and motion sickness: Is there evidence for their relationship?

In: Sensory-Motor Functions under Weightlessness and Space Motion Sickness (Mitarai, G., Igarashi, M., Eds.). Nagoya, Japan: University of Nagoya Press, p. 139-149, 1985. (GWU 7105)

Daunton*, N.G.; Brizzee*, K.; Corcoran, M.; Crampton*, G.; D'Amelio, F.; Elfar, S.; Fox, R.

Reassessment of area postrema's role in motion sickness and conditioned taste aversion.

Chinese Journal of Physiological Science 4: 454-455, 1987.

Daunton*, N.G.; Fox, R.A.

Motion sickness elicited by passive rotation in squirrel monkeys.

In: Vestibular and Visual Control on Posture and Locomotor Equilibrium (Igarashi, M., Black, F.O., Eds.). Basel, Switzerland: Karger, p. 164-169, 1985. (GWU 6544)

Daunton*, N.G.; Fox, R.A.; Crampton*, G.H.

Susceptibility of cat and squirrel monkey to motion sickness induced by visual stimulation: Correlation with susceptibility to vestibular stimulation.

In: Motion Sickness: Mechanisms, Prediction, Prevention and Treatment. Neuilly sur Seine, France: Advisory Group for Aerospace Research and Development, p. 31/1-31/5, 1984. (AGARD CP-372) (GWU 6477)

Daunton*, N.G.; Greene, L.O., Jr.; Fox*, R.A.

Squirrel monkey as a candidate for studies of space sickness and vestibular function in Spacelab (Abstract). In: Space-Environment Workshop for Life Scientists. Washington, DC: NASA Headquarters, p. 51, 1980. (GWU 4951)

Daunton*, N.G.; Mehler*, W.R.; Brizzee*, K.R.

Foreword.

Brain, Behavior and Evolution 23(1-2): 5-6, 1983. (GWU 5326)

Daunton*, N.G.; Mehler*, W.R.; Brizzee*, K.R. (Eds.)

Mechanisms of motion-induced vomiting.

Brain, Behavior and Evolution 23(1-2): 1-80, 1983. (GWU 5307)

Davis, J.R.; Vanderploeg*, J.M.; Stewart, D.F.; Santy, P.A.; Logan*, J.S.

Summary of motion sickness experience on 24 shuttle flights (Abstract).

Aviation, Space, and Environmental Medicine 59(5): 467, 1988. (GWU 9904)

Degioanni*, J.J.; Calkins, D.S.; Reschke*, M.F.

Evaluation of the efficacy of buccal scopolamine tablets (1.0 mg) in the treatment of acute motion sickness (Abstract).

Aviation, Space, and Environmental Medicine 61(5): 484, 1990. (GWU 13179)

Degioanni*, J.J.; Johnson*, P.C., Jr.; Cintron*, N.M.; Calkins, D.S.

Evaluation of the efficacy and side effects of buccal scopolamine in the treatment of motion sickness (Abstract). Aviation, Space, and Environmental Medicine 60(5): 506, 1989. (GWU 14354)

DiZio, P.; Lackner*, J.R.

Motion sickness susceptibility and changes in vestibular function in a varying gravitoinertial force background (Abstract).

Aviation, Space, and Environmental Medicine 61(5): 489, 1990. (GWU 13182)

Elfar, S.; Brizzee*, K.; Fox, R.; Corcoran, M.; Daunton*, N.; Coleman, J.

Recovery of the vomiting reflex following area postrema ablation in squirrel monkeys (Abstract).

Society for Neuroscience Abstracts 12: 885, 1986. (GWU 9538)

Fowlkes, J.E.; Kennedy*, R.S.; Hettinger, L.J.; Harm*, D.L.

Changes in the dark focus of accommodation associated with simulator sickness (Abstract).

Aviation, Space, and Environmental Medicine 59(5): 465, 1988. (GWU 9910)

Fowlkes, J.E.; Kennedy*, R.S.; Lilienthal, M.G.; Dunlap, W.P.

Control of simulator sickness incidence by simulator usage, adaptation, and other means (Abstract).

Aviation, Space, and Environmental Medicine 60(5): 479, 1989. (GWU 14374)

Fox, R.; Daunton*, N.; Keil*, L.; Crampton*, G.; Lucot, J.

Vasopressin and motion sickness in the cat (Abstract).

In: Abstracts of Papers, Physiologic Adaptation of Man in Space, 7th International Man in Space Symposium, Houston, TX, February 10-13, 1986, 1 p. (GWU 7786)

Fox, R.; Keil*, L.; Daunton*, N.; Thomsen, D.; Dictor, M.; Chee, O.

Changes in plasma vasopressin during motion sickness in cats (Abstract).

Society for Neuroscience Abstracts 6: 656, 1980. (GWU 2598)

Fox*, R.A.

Investigating motion sickness using the conditioned taste aversion paradigm.

In: Motion and Space Sickness (Crampton, G.H., Ed.). Boca Raton, FL: CRC Press, p. 105-121, 1990. (GWU 13232)

Fox*, R.A.; Corcoran, M.; Brizzee*, K.R.

Conditioned taste aversion and motion sickness in cats and squirrel monkeys.

Canadian Journal of Physiology and Pharmacology 68(2): 269-278, 1990. (GWU 13231)

Fox*, R.A.; Daunton*, N.G.

Conditioned feeding suppression in rats produced by cross-coupled and simple motions.

Aviation, Space, and Environmental Medicine 53(3): 218-220, 1982. (GWU 3065)

Fox*, R.A.; Daunton*, N.G.; Coleman, J.

Susceptibility of the squirrel monkey to several different motion conditions (Abstract).

Society for Neuroscience Abstracts 8(1): 698, 1982. (GWU 4633)

Fox, R.A.; Keil*, L.C.; Daunton*, N.G.; Crampton*, G.H.; Lucot, J.

Vasopressin and motion sickness in cats.

Aviation, Space, and Environmental Medicine 58(9, Suppl.): A143-A147, 1987. (GWU 8087)

Fox, R.A.; Lauber, A.H.; Daunton*, N.G.; Phillips, M.; Diaz, L.

Off-vertical rotation produces conditioned taste aversion and suppressed drinking in mice.

Aviation, Space, and Environmental Medicine 55(7): 632-635, 1984. (GWU 5679)

Gower, D.W., Jr.; Lilienthal, M.G.; Kennedy*, R.S.; Fowlkes, J.E.

Simulator sickness in U.S. Army and Navy fixed- and rotary-wing flight simulators.

In: Motion Cues in Flight Simulation and Simulator Induced Sickness. Neuilly-sur Seine, France: Advisory Group for Aerospace Research and Development, p. 8/1-8/20, 1987. (AGARD CP-433) (GWU 9599)

Graybiel*, A.

Coping with space motion sickness in Spacelab missions.

Acta Astronautica 8(9-10): 1015-1018, 1981. (GWU 3748)

Graybiel*, A.

Space motion sickness: Skylab revisited.

Aviation, Space, and Environmental Medicine 51(8): 814-822, 1980. (GWU 1264)

Graybiel*, A.; Cramer*, D.B.; Wood, C.

Antimotion-sickness efficacy of scopolamine 12 and 72 hours after transdermal administration.

Aviation, Space, and Environmental Medicine 53(8): 770-772, 1982. (GWU 2265)

Graybiel*, A.; Cramer, D.B.; Wood, C.D.

Experimental motion sickness: Efficacy of transdermal scopolamine plus ephedrine.

Aviation, Space, and Environmental Medicine 52(6): 337-339, 1981. (GWU 2459)

Graybiel*, A.; Lackner*, J.R.

Evaluation of the relationship between motion sickness symptomatology and blood pressure, heart rate, and body temperature.

Aviation, Space, and Environmental Medicine 51(3): 211-214, 1980. (GWU 782)

Graybiel*, A.; Lackner*, J.R.

Motion sickness: Acquisition and retention of adaptation effects compared in three motion environments.

Aviation, Space, and Environmental Medicine 54(4): 307-311, 1983. (GWU 4357)

Graybiel*, A.; Lackner*, J.R.

A sudden-stop vestibulovisual test for rapid assessment of motion sickness manifestations.

Aviation, Space, and Environmental Medicine 51(1): 21-23, 1980. (GWU 783)

Graybiel, A.; Lackner*, J.R.

Treatment of severe motion sickness with antimotion sickness drug injections.

Aviation, Space, and Environmental Medicine 58(8): 773-776, 1987. (GWU 8134)

Harm*, D.L.; Beatty, B.J.; Reschke*, M.F.

Transcutaneous oxygen as a measure of pallor (Abstract).

Aviation, Space, and Environmental Medicine 58(5): 508, 1987. (GWU 8805)

Harm*, D.L.; Parker*, D.E.

Mode A preflight adaptation trainer.

In: Johnson Space Center Research and Technology, Annual Report 1988. Houston, TX: NASA, Johnson Space Center, p. 165-166, 1989. (NASA-TM-100473) (GWU 13676)

Harm*, D.L.; Reschke*, M.F.

Preliminary investigation of cardiovascular responses to parabolic flight in sick and non-sick individuals (Abstract). Aviation, Space, and Environmental Medicine 60(5): 493, 1989. (GWU 14397)

Harm*, D.L.; Reschke*, M.F.

Transcutaneous oxygen changes during the progression of motion sickness (Abstract).

In: Space Life Sciences Symposium: Three Decades of Life Science Research in Space, Washington, DC, June 21-26, 1987, p. 84-85. (GWU 9960)

Harm*, D.L.; Stern, R.S.; Koch*, K.L.

Tachygastria during parabolic flight (Abstract).

In: Space Life Sciences Symposium: Three Decades of Life Science Research in Space, Washington, DC, June 21-26, 1987, p. 86. (GWU 9977)

Hayes, J.; Watson, T.; Homick*, J.; Reschke*, M.; Vanderploeg*, J.; Kutyna, F.

Assessment of motion sickness susceptibility in a selected group of gymnasts (Abstract).

Aviation, Space, and Environmental Medicine 57(5): 492, 1986. (GWU 8011)

Hettinger, L.J.; Berbaum, K.S.; Kennedy*, R.S.; Dunlap, W.P.; Nolan, M.D.

Vection and simulator sickness.

Military Psychology 2(3): 171-181, 1990. (GWU 14157)

Hoffman, R.B.; Salinas, G.A.; Homick*, J.L.

Piracetam and fish orientation during parabolic aircraft flight.

Aviation, Space, and Environmental Medicine 51(6): 568-576, 1980. (GWU 1473)

Homick*, J.L.

Effects of space flight on the human vestibular system (Abstract).

In: Proceedings of the 34th Annual Conference on Engineering in Medicine and Biology, Houston, TX, September 21-23, 1981. Bethesda, MD: The Alliance for Engineering in Medicine and Biology, p. 228, 1981. (GWU 5360)

Homick*, J.L.

Validation of predictive tests and countermeasures for space motion sickness.

In: STS-1 Medical Report (Pool, S.L., Johnson, P.C., Jr., Mason, J.A., Eds.). Houston, TX: NASA, Johnson Space Center, p. 37-38, 1981. (NASA-TM-58240) (GWU 3527)

Homick*, J.L.

Validation of predictive tests and countermeasures for space motion sickness.

In: STS-2 Medical Report (Pool, S.L., Johnson, P.C., Jr., Mason, J.A., Eds.). Houston, TX: NASA, Johnson Space Center, p. 8, 1982. (NASA-TM-58245) (GWU 3629)

Homick*, J.L.

Validation of predictive tests and countermeasures for space motion sickness.

In: STS-3 Medical Report (Pool, S.L., Johnson, P.C., Jr., Mason, J.A., Eds.). Houston, TX: NASA, Johnson Space Center, p. 8-10, 1982. (NASA-TM-58247) (GWU 4661)

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VESTIBULAR PERFORMANCE, POSTURE, AND MOTOR COORDINATION

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INDEX OF PRINCIPAL INVESTIGATORS

Kenyon, R.V., 39, 46, 48, 57 Anderson, D.J., 29, 37, 49, 50, 51, 54, 55 Koch, K.L., 9, 10, 12, 13, 22, 23, 24 Bagian, J.P., 30 Kohl, R., 18 Bizzi, E. 29, 30, 42, 43, 55 Black, F.O., 30, 31, 38, 43, 44, 48, 49, 50, 52, Kohl, R.L., 11, 13, 14, 15, 16, 50 Kutyna, F., 15 53, 61, 68 Lackner, J., 40 Blanks, R.H., 23 Lackner, J.R., 7, 8, 15, 16, 34, 35, 37, 40, 41, Blanks, R.H.I., 53, 67, 79, 88 42, 44, 50, 95 Brizzee, K., 6, 7, 62 Leach, C., 14 Brizzee, K.R., 3, 7, 8, 19, 21, 83, 84, 85, 89 Leach, C.S., 10, 16, 71 Bullock, T.H., 88 Leigh, R.J., 36, 42, 43, 51, 52, 54 Bussolari, S.R., 31, 32 Lichtenberg, B., 15 Charles, J.B., 25 Lichtenberg, B.K., 20, 21, 39, 43, 45, 46, 47, Cintron, N., 14 48, 51, 57 Cintron, N.M., 4, 7, 21, 22, 85 Lim, D.J., 71, 74, 79 Cintrón, N.M., 4, 21 Llinas, R., 83, 88 Cintron-Trevino, N.M., 4, 10 Llinás, R., 83, 84, 85, 86, 88, 89 Cohen, B., 32, 49, 50, 51, 52, 64, 68, 70, 75, Llinás, R.R., 85 77, 78, 80 Logan, J.S., 7 Cohen, M.M., 31, 32, 52, 54 Lucot, J.B., 17, 18 Correia, M.J., 5, 29, 32, 42, 61, 62, 63, 64, 65, Mah, R.W., 43 70, 71, 74, 75 Markham, C.H., 33, 34, 40, 43, 44, 45, 63, 64, Cowings, P.S., 5, 6, 24 70, 72, 73, 77, 83 Cramer, D.B., 8 McCormack, P.D., 45 Crampton, G., 6, 7, 62 Mehler, W.R., 7, 64, 70, 77, 84, 86, 87 Crampton, G.H., 6, 8, 17, 18, 21 Miller, A.D., 18, 19, 23, 51, 72, 77, 78 Crow, T., 63 Cutler, L., 76, 77 Mohler, S., 95 D'Amelio, F., 84 Mohler, S.R., 45 D'Amelio, F.E., 84 Money, K., 45 Money, K.E., 4, 16, 19, 20, 21, 24, 34, 40, 45, Daunton, N., 7, 19, 62, 64, 84 Daunton, N.G., 5, 6, 7, 8, 19, 23, 25, 33, 36, 46, 54, 57 Money, K.Y., 15 37, 64, 66, 75, 93 Nicogossian, A.E.T., 45 Degioanni, J., 10 Degioanni, J.J., 7 Oman, C., 19 Oman, C.M., 3, 19, 20, 21, 22, 29, 35, 45, 46, DeRoshia, C.W., 32, 93, 95 49, 50, 55, 57, 64, 74 Drusano, G.L., 21 Paige, G., 30 Ellis, S., 87 Paige, G.D., 32, 36, 46, 53, 67 Fox, R.A., 5, 7, 8, 93 Gallagher, J.P., 16, 66, 67, 68, 71, 75, 83, 85, Parker, D., 29, 47, 56 Parker, D.E., 9, 21, 32, 36, 44, 46, 47, 48, 50, 86, 87, 88, 89 51, 52, 74, 95 Goldberg, J., 33, 61 Perachio, A.A., 5, 61, 62, 63, 65, 70, 71, 72, Goldberg, J.M., 36, 46, 61, 66, 67, 68, 72, 78 73, 74, 75 Graybiel, A., 8, 15, 16, 24, 36, 41, 42 Peterka, R.J., 31, 44, 48, 49, 61, 88 Graybiel, A.M., 83, 84, 85, 86 Harm, D.L., 7, 9, 16, 32, 36, 44, 46, 47, 50, 51 Philpott, D.E., 84 Pool, S., 53 Held, R., 44, 55 Homick, J., 5, 9 Pool, S.L., 23, 52, 53 Reis, D.J., 87, 88 Homick, J.E., 29 Homick, J.L., 9, 10, 11, 14, 15, 16, 22, 31, 38, Reschke, M., 5, 9, 43 Reschke, M.F., 4, 7, 9, 10, 11, 15, 16, 17, 18, 39, 40, 47, 50, 51, 55, 93, 95 21, 22, 29, 30, 31, 36, 37, 38, 39, 42, 43, Igarashi, M., 3, 11, 18, 37, 38, 39, 40, 50, 62, 46, 47, 48, 50, 51, 52, 53, 55, 56, 71 66, 68, 69, 70, 71, 73, 78, 79, 80, 85 Riley, D.A., 86, 87, 88 Johnson, P.C., Jr., 7 Ross, M., 76 Keil, L., 7 Ross, M.D., 72, 76, 77 Keil, L.C., 8 Schor, R.H., 39, 51, 55, 70, 73, 77, 78, 79 Kennedy, R., 93 Shaw, J., 22 Kennedy, R.S., 3, 4, 7, 8, 9, 11, 12, 16, 24, Steele, C.R., 43 93, 94, 95, 96

115

Stone, L.S., 52 Sulzman, F.M., 55 Talbot, J.M., 23 Thornton, W.E., 23, 52, 53 Tomko, D., 75, 76 Tomko, D.L., 29, 32, 36, 40, 44, 46, 48, 51, 53, 61, 75, 76, 78, 79 Vanderploeg, J., 9, 23 Vanderploeg, J.M., 4, 7, 10, 14, 15, 21, 22, 50, 51 Wall, C., 79 Wall, C., III, 36, 44, 49, 53, 66, 74, 78, 79 Watt, D., 45, 54 Watt, D.G., 19, 34, 45 Watt, D.G.D., 24, 40, 45, 46, 54, 57, 66 Welch, R.B., 32, 54 Whitson, P.A., 85 Wilson, V.J., 18, 19, 37, 39, 55, 56, 61, 62, 65, 66, 70, 72, 73, 77, 78, 79 Wolfe, J.W., 55 Wood, C.D., 12, 18, 19, 23, 24, 25, 31 Young, L., 56, 93, 96 Young, L.R., 25, 29, 31, 32, 37, 39, 43, 45, 46, 48, 52, 56, 57, 93, 95, 96

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